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3430 Evaluation

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Hezard Tree Evaluation - Quinault Renger District

Forest Supervisor, Clympic NY

On August 10-17, Ovegory M. Filip, Plant Pathologist with Forest Peat Management at the Regional Office, participated in a vegetative management session concerning Villaby Compground on the Quincult Reager District, Olympic National Forest. Purpose of the session was to develop a plan for present and foture management of all vegetation, including heard trees, in the Willaby Compground. Others who participated actively in the session included Jim Pollack, Read of Landscape Management at the RO: Jim Olsen, Developed Sites Specialist at the RO: Sesson Wong, Recreation Specialist at the RO: Jeff Amose, Recreation Specialist at the RO: Jeff Amose, Recreation Specialist at the District: and Gerry Divon, District Silviculturist.

Willahy Campercuré is located in a stand composed of old-growth wastern healock, western redeeder, Douglas-fir, and Siths apracet and second-growth cedar, hemlock, and Douglas-fir. The anisting campercund will be redesigned with new roads, a new water system, and new camping and picnic units. While developing a vegetative management plan for the campercund, heard trees were evaluated.

A major portion of the east and of the campground is composed of second-growth hemiock infected with dwarf mistletoe (Arcouthobius trugonse). Trees with dwarf mistletoe do not become immediately hazardous after infection. However, severe infeatations of dwarf mistletoe may result in reduced tree visor and prediamone infected trees to other serious pasts such as root rots or bank beetles. Branches infected by dwarf mistletoe grow absormally and can reach large size. Such branches are more likely to fell than healthy branches.

Duerf mistletoes, being higher send plants with chlorophyll, require light is order to produce serial shoots and seeds. Histletoe seeds do not require such light to germinate and infect host tissue. However, new infections will not produce serial shoots until the proper amount of light is attained. A dense stand of infected trees such as the one in Willeby Compground will have several domaint infections until more light is provided. If the infested stand is opened up through the removal of some trees to form now units, the domaint infections in the residual stand will produce serial shoots, resulting in what appears to be several new infections. The serial shoots will produce seeds and the infestation will intensify. Trees with several active infections will then have a greater chance of being attacked by other serious pests because of reduced visor.

One large Siths spruce had a large belo wound with visible rot 30 to 40 feet above the ground. Although this tree was not adjacent to any existing unit, a new unit is planned near the tree. It is recommended that the tree be cut just below the large wound to reduce the chance of the tree failing. This will provide a snag for wildlife and retain the character of the site.

Two or three hemlocks appeared to have grown on the stumps of old-growth trees and that their root systems were exposed. Such trees appeared to be on "etilts." It is not cartain whether this condition renders the trees prone to windthrow. However, removal of such trees should be considered if they are adjacent to valuable targets such as one tree near the boat remp parking lot.

In general, there were very few high bazard trees or large bazardous limbs remaining in Willaby Campground, probably as a result of the conscientious District program to immediately treat bazardous situations. As part of the vegetative management plan, it was suggested that future bazard trees be treated by topping to leave a 20-30-foot mang to provide babitat for wildlife and retain part of the tree so as not to totally alter the character of the site.

Two other sites were examined fellowing the vegetative management session. The first site was the proposed Willaby Plate Campground. The site is presently undeveloped and will contain 40 units. The stand which will contain the campground is composed of old-growth Siths spruce, Bouglas-fir, and western redocder with a dense second-growth stand of healook. Every mistleton was observed in the beniock with some trees having large dead witches'-brooms caused by the mistleton. A few large spruce or Douglas-fir snogs were found scattered throughout the area. No root disease centers or an excessive number of wounded trees were found on the site.

Although there were no disease or insect conditions that would limit using the site for a campground, western basioch is not a preferred species in which to locate a developed recreation site. Besides the problems associated with dwarf mistletoe as discussed for the Willaby Campground, western bemlock is especially prove to heartrot associated with tree wounding. Spruce is also quite susceptible to stem decays. Banking tree species on the site for ansemptibility to heartrot from most to least would be as follows: hemlock, spruce, Douglas-fir, and cedes.

For the proposed Willeby Vista Campground, we recommend that (1) all large snags be removed or topped if adjacent to units. (2) large dead dwarf mistletoe brooms be removed if over units. (3) care should be taken to prevent excessive wounding of residual trees during campground construction activities. (A) residual trees should be preferably sedar or fir with bemlock chosen last, and (5) the site be evaluated yearly for hexard trees after development.

A third comparement that was examined was the Clallie Campground which had been closed due to the prevalence of baserd trees. The campground contains several large old-growth anegs of Douglas-fir. Hany of the living old-growth Douglas-fir had dead tops. One large tree had fallen across the campground and appeared to be infected with Pheeolus schweinitzii, causal agent of butt rot in old-growth Douglas-fir.

In general, the entire old-growth stand of Douglas-fir in Olallie Campground is in a state of decline. Although not extensively examined, it is possible that most of the old-growth stand is infected with P. schweinitzii which is a common problem in old-growth Douglas-fir. The District plans to contact FPM pathologists to conduct a more detailed hosard tree analysis of the compground if they decide to reopen the facility.

If Forest Pest Management can be of further assistance, please contact us.

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